

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division	Department	Archives and Records Office Use Only
Directorate	Public Affairs	
Group		Filing Code
Creative Services Offices (CSO)/PhotoLab		ARO-6606
Location	90R1116	LBNL Accession Date
Transferee	Bailey, Marilee B	9/3/2013
Head of Department		FRC Accession No.
Pamela Patterson		

Records Title

Public Affairs Creative Services Office's Photo Lab's Historic Analog And Digital Photographs

Inclusive Date of Records

1943 1966

No of Containers

3 FRC Box

Brief description of records

AT NARA

This accession provides photographic documentation of the early history of Lawrence Berkeley National Laboratory (LBNL). Significant individuals, projects, instruments and events were photographed in the early days of what was then known as the University of California Radiation Laboratory (UCRL). This mixed collection described below is comprised of 4 X 5 Kodak film negatives. This is a discrete collection of images dated from 1943 through 1966 and attributed to various photographers, many unknown. Many photographs in this collection were originally marked "secret" or "restricted". They have since been marked "declassified". The date of declassification has been clearly marked on the image metadata.

Definition of the Collections in the Set:

Miscellaneous (Misc.) - Originally named this because of its diverse subject matter. Photos taken period between 1943-1960.

Measurement Projects Development (MP) - Images of measuring devices associated with the 184-inch cyclotron and atomic bomb testing between 1950-1952.

[Mag] Magnet (Mag) - Images of magnets and related equipment associated with the 184-inch cyclotron between 1943-1946.

Linac - Images associated with the Linac at the 184-inch cyclotron. Associated individuals: Robert Oppenheimer, Luis Alvarez, Wolfgang (Pief) Panofsky. From the arrival of the 40-foot tank 1945 to its removal in 1958.

Some key subject matter:

1. Early images of Ernest Orlando Lawrence, William Brobeck, Gordon Sproul, Harold Fielder, Donald Cooksey
2. Various Radiation Laboratory research and building sites
3. Atomic Bomb images
4. Magnets, Measurement devices, and various instruments associated with 184-inch
5. Linac associated with 184-inch cyclotron
6. Tours and international visitors

This collection was selected as critical for digitization because of the following factors:

1. General degradation
2. Limited personnel to identify individuals and scientific apparatus.

These collections were comprised of approximately 2,853 total assets, all of which were reviewed for permanent retention and transfer to the National Archives. Of that total, 8 had been previously scanned and an additional 571 were scanned. The identification and transfer of 579 photographic assets is approximately 20% of these collections.

Materials

Electronic Imaging Records - Photographs, Black and White Negative

Records Retention

- Historically Valuable Documents. Do not destroy. A detailed folder listing is included with the Records Transmittal
- Destroy/Review on a scheduled basis with a minimum retention of _____ years. Disposal/Review Date: _____ Perm.

This is in accordance with:

- The National Archive General Retention Schedule. Citation _____ DOE/ADM/21/1/1A-E
- The Department of Energy Retention Schedule. Citation _____

Disposal Authorization:

The legal retention of the records listed on this Records Transmittal has elapsed. Since I foresee no use of these records, I authorize their disposal.

Signature of Department Head

Date

**Ernest Orlando Lawrence Berkeley National Laboratory
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Division Directorate	Department Public Affairs	Filing Code ARO-6606
Group Creative Services Offices (CSO)/PhotoLab		
Records Title Public Affairs Creative Services Office's Photo Lab's Historic Analog And Digital Photographs		

Container **Of**

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Public Affairs Creative Services Office's Photo Lab's Historic Analog And Digital Photographs		

Box

1 DVD:

04_01_2013 [VERBATIM Archival Grade DVD-R 8X - Labelled NARA 04-01-2013 LBNL].
 Contents Summary: TIF/XBD9606-02942.TIF - XBD201209-01124.TIF; PNG/XBD9606-02942.PNG - XBD201209-01124.PNG; Final_LBNL_01_04_13_Photos_To_NARA.xls

Photos:

XBD9606-02942.TIF -- The 40-foot steel vacuum chamber for the proton linac built in 1947 by a group under Luis Alvarez. Photograph taken May 13, 1947. LINAC-442.
 XBD9606-02943.TIF -- The 40-foot long radio-frequency cavity of the proton linac linear accelerator lifted out of its vacuum vessel. Photograph taken May 12, 1947. LINAC-438.
 XBD9606-02944.TIF -- View inside the partially opened linac chamber showing the drift tubes between which protons are successively accelerated. Photograph taken April 15, 1947. LINAC-416.
 XBD9606-02954.TIF -- Ernest Orlando Lawrence, William Brobeck, Harold Fidler, and Donald Cooksey in the aperture of a Bevatron magnet section. Photograph taken November 22, 1950. See also XBD201208-00490.TIF. Misc.-661.
 XBD9607-03493.TIF -- Scenic view looking south with Oakland and the San Francisco Bay in the background. The historic dome that crowned the 184-inch cyclotron would later be the site of the Advanced Light Source (ALS).
 XBD200008-01260.TIF -- Left to Right: Professor Ernest Orlando Lawrence, William Brobeck, Dr. Harold Fidler And Dr. Donald Cooksey in the Bevatron core gap in Building 51. Photo taken 11/22/1950. Misc.-656
 XBD200008-01261.TIF -- Left to Right: Dr. Donald Cooksey, Dr. Harold Fidler, Professor Ernest Orlando Lawrence, William Brobeck, and Professor Robert Thornton overlooking model of Bevatron in Building 51. Photo taken November 22, 1955
 XBD200106-00933.TIF -- Ernest Orlando Lawrence, Robert Gordon Sproul (President of the University of California) and Donald Cooksey. Photograph taken March 14, 1943. Misc.-9A.
 XBD201206-00313.TIF -- Donald Cooksey, Robert Sproul, and Ernest Orlando Lawrence. Photo taken 3/19/1943.
 XBD201206-00314.TIF -- Donald Cooksey, Robert Sproul, and Ernest Orlando Lawrence. Photo taken 3/19/1943.
 XBD201206-00317.TIF -- Ernest Orlando Lawrence. Photograph taken April 9, 1943.
 XBD201206-00319.TIF -- Ernest Orlando Lawrence sitting at control panel. Photograph taken April 15, 1943.
 XBD201206-00320.TIF -- Ernest Orlando Lawrence sitting at control panel. Photograph taken April 15, 1943.
 XBD201203-00321.TIF -- Donald Cooksey, Robert Sproul, and Ernest Orlando Lawrence. Photograph taken March 19, 1943.
 XBD201206-00322.TIF -- Tennessee Eastman officials and General Leslie R. Groves (second from right) with Ernest O. Lawrence (right) at the 184-inch cyclotron magnet. Photo taken in 1943.
 XBD201206-00323.TIF -- Radiation Laboratory (Lawrence Berkeley National Laboratory) site above the UC Berkeley Campus. Photograph taken April 4, 1943.
 XBD201206-00324.TIF -- Radiation Laboratory (Lawrence Berkeley National Laboratory) site above the UC Berkeley Campus. Photograph taken May 29, 1943.
 XBD201206-00325.TIF -- Box crane at the 184-inch cyclotron. Photograph taken April 20, 1943. Restricted, unclassified 11/28/1945.
 XBD201206-00326.TIF -- Gloves and Coke bottles at the 184-inch cyclotron. Photograph taken May 11, 1943.

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XBD201206-00327.TIF -- George Cedric Wright, Radiation Laboratory photographer and mentor and close friend to Ansel Adams. Photograph taken May 17, 1943.

XBD201206-00328.TIF -- New preheating furnace with "Monkey Ward and Company" sign. Photograph taken May 24, 1943.

XBD201206-00329.TIF -- Coca Cola truck making a delivery to the 184-inch cyclotron. Photograph taken May 28, 1943.

XBD201206-00330.TIF -- Dirt road above the Animal House, Building 31. Photograph taken May 29, 1943.

XBD201206-00331.TIF -- View from Cyclotron Road (near Blackberry Gate) looking down toward UC Berkeley. The Campanile, Bowles Hall, and the Greek Theater are visible. Photograph taken June 8, 1943.

XBD201206-00332.TIF -- View of the 184-inch cyclotron building. Photograph taken June 8, 1943.

XBD201206-00333.TIF -- Captioned, "Metropolis. Photographer gone nuts." This board contains samples of all the nuts around the 184-inch cyclotron. Photograph taken June 15, 1943.

XBD201206-00336.TIF -- Dr. Norman (center) and pump gang, 184-inch cyclotron. Photograph taken June 17, 1943.

XBD201206-00337.TIF -- Ernest Orlando Lawrence holding the key to the 184-inch cyclotron, overlooking the Bay and tSan Francisco from Lawrence Berkeley Laboratory. Photograph taken June 19, 1943.

XBD201206-00338.TIF -- Cars parked along road at Lawrence Radiation Laboratory. Photograph taken June 18, 1943.

XBD201206-00339.TIF -- George Cedric Wright playing a double bass type instrument built for him at Lawrence Radiation Laboratory. Photograph taken July 12, 1943.

XBD201206-00340.TIF -- Clean up magnet used to pick up nails. Photograph taken July 16, 1943.

XBD201206-00341.TIF -- Lunch break at the 184-inch cyclotron construction site, looking down towards the Bay. Photograph taken July 21, 1943.

XBD201206-00342.TIF -- Salvage department. Photograph taken September 3, 1943.

XBD201206-00343.TIF -- Left to right: Ken Priestley, James Corley, James K. Moffit, Donald Cooksey, Harold A. Fidler. Photograph taken September 11, 1943.

XBD201206-00344.TIF -- Geiger counter for Tennessee Eastman group. Photograph taken September 16, 1943.

XBD201206-00345.TIF -- Spiral glass bender. Photograph taken September 16, 1943.

XBD201206-00346.TIF -- Power line to new building, connected to 184-inch cyclotron. Photograph taken September 16, 1943.

XBD201206-00347.TIF -- Salvaging old tanks. Photograph taken October 14, 1943.

XBD201206-00348.TIF -- Portrait of William H. Donner (dated 1864.) Donner, President of the International Cancer Research Foundation donated money to build Donner Lab on the UC Berkeley campus for new work being done in "medical physics." Photograph of portrait taken October 22, 1943.

XBD201206-00349.TIF -- The Christmas spirit according to the 184-inch cyclotron tool room workers: A Christmas tree made of metal filings and fittings. Photograph taken December 21, 1943.

XBD201206-00350.TIF -- The Christmas spirit according to the 184-inch cyclotron tool room workers: Two wreaths made of metal filings and scraps. Photograph taken December 21, 1943.

XBD201207-00354.TIF -- Combination cigarette lighter and atom smasher. Photograph taken December 30, 1943.

XBD201207-00355.TIF -- Combination cigarette lighter and atom smasher. Photograph taken December 30, 1943.

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XBD201207-00356.TIF -- View from the Radiation Laboratory looking northwest toward the Bay, Berkeley, and Albany Hill. Photograph taken January 18, 1944.

XBD201207-00357.TIF -- Dump truck in 184-inch cyclotron building. Photograph taken February 24, 1944.

XBD201207-00358.TIF -- Julius Kahn's rubber field model to determine charged particle trajectories in electric field. Photograph taken May 6, 1944.

XBD201207-00359.TIF -- Julius Kahn's rubber field model to determine charged particle trajectories in electric field. Photograph taken May 6, 1944.

XBD201207-00360.TIF -- South half of the 184-inch cyclotron building, Henry Hofacker's welding shop and gate house. Photograph taken June 3, 1944.

XBD201207-00361.TIF -- Oil filters for the 184-inch cyclotron in Henry Hofacker's welding shop (same as filters for XC 88-2). Photograph taken June 5, 1944.

XBD201207-00362.TIF -- Heat exchangers for water tower. Photograph taken June 12, 1944 near the cooling tower.

XBD201207-00363.TIF -- Pit under the 184-inch cyclotron. Left: Pressure pumps for treated water. Right: Sump pumps for returning water to cooling tower. Photograph taken January 10, 1945.

XBD201207-00364.TIF -- Carbons. Photograph taken May 22, 1945. Photograph formerly restricted.

XBD201207-00365.TIF -- Cosmic ray magnet for cloud chamber, Department of Physics. Photograph taken July 26, 1945.

XBD201207-00366.TIF -- Elements of wave guides for Dr. Allen. Chart title: Reflective Plates and Wave Guides. Photograph taken August 13, 1945.

XBD201207-00367.TIF -- Elements of wave guides for Dr. Allen. Photograph taken August 13, 1945.

XBD201207-00368.TIF -- Elements of wave guides for Dr. Allen. Photograph taken August 13, 1945.

XBD201207-00369.TIF -- Radiation Mountain bone yard with 184-inch cyclotron building in the background. Photograph taken October 19, 1945.

XBD201207-00370.TIF -- Radiation Mountain bone yard with workmen. Photograph taken October 19, 1945.

XBD201207-00371.TIF -- Copper collector rings of the ionic centrifuge, in storage at 2063 Addison Street, Berkeley. Photograph taken November 27, 1945.

XBD201207-00372.TIF -- Tank of Dr. Joseph Slepian's ionic centrifuge in storage at 2063 Addison Street, Berkeley. Photograph taken November 27, 1945.

XBD201207-00373.TIF -- Tank of Dr. Joseph Slepian's ionic centrifuge in storage at 2063 Addison Street, Berkeley. Photograph taken November 27, 1945.

XBD201207-00374.TIF -- Trinitite (also referred to as Atomsite or Alamogordo Glass.) Samples of atom bombed earth from Trinity nuclear bomb test site, Alamogordo, New Mexico, July 16, 1945. Photograph taken February 18, 1946 in Crocker Lab

XBD201207-00375.TIF -- Trinitite (also referred to as Atomsite or Alamogordo Glass.) Samples of atom bombed earth from Trinity nuclear bomb test site, Alamogordo, New Mexico, July 16, 1945. Photograph taken February 18, 1946 in Crocker Lab

XBD201207-00376.TIF -- Oppenheimer's attempted electron multiplier. Photograph taken February 20, 1946

XBD201207-00377.TIF -- Storm clouds above the Radiation Laboratory. Photograph taken November 19, 1946

XBD201207-00378.TIF -- Storm clouds above the Radiation Laboratory. Photograph taken November 19, 1946

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XBD201207-00379.TIF -- The II Pipe Dreams of Mr. Heal. Pinups in tool box lid with "Wolf at Work, Do Not Disturb" note. Photograph taken December 23, 1946

XBD201207-00380.TIF -- Wrecked truck at UC Berkeley's Memorial Stadium. Photograph taken December 31, 1946

XBD201207-00382.TIF -- Lead wheelbarrow truck for hauling radioactive material. Photograph taken April 21, 1947

XBD201207-00383.TIF -- General outside view of corp. yard, adjacent buildings, and the 184-inch cyclotron area. Photograph taken April 22, 1947

XBD201207-00384.TIF -- The Thing! Photograph taken April 21, 1947

XBD201207-00385.TIF -- View looking down to the 184-inch cyclotron toward the Bay and San Francisco. Photograph taken February 11, 1948

XBD201207-00386.TIF -- Destruction of unidentified classified materials. Photo formerly restricted. Photograph taken March 19, 1948

XBD201207-00387.TIF -- Destruction of unidentified classified materials. Photograph taken March 19, 1948

XBD201207-00388.TIF -- Destruction of unidentified classified materials. Photo formerly restricted. Photograph taken March 19, 1948

XBD201207-00389.TIF -- Destruction of unidentified classified materials. Photo formerly restricted. Photograph taken March 19, 1948

XBD201207-00390.TIF -- Destruction of unidentified classified materials. Photograph taken March 19, 1948

XBD201207-00391.TIF -- Destruction of unidentified classified materials. Photo formerly restricted. Photograph taken March 19, 1948

XBD201207-00392.TIF -- Destruction of unidentified classified materials. Photo formerly restricted. Photograph taken March 19, 1948

XBD201207-00393.TIF -- Destruction of unidentified classified materials. Photograph taken March 19, 1948

XBD201207-00394.TIF -- Destruction of unidentified classified materials. Photograph taken March 19, 1948

XBD201207-00395.TIF -- Destruction of unidentified classified materials. Photograph taken March 19, 1948

XBD201207-00396.TIF -- Destruction of unidentified classified materials. Photograph taken March 19, 1948

XBD201207-00397.TIF -- 100 MeV Betatron. "100,000,000-Volt Induction Electron Accelerator in GE Research Laboratory," drawn by B.G. Seielstad, Courtesy of Popular Science Monthly. General Electric negative. Photograph taken June 21, 1948

XBD201207-00398.TIF -- General Electric 100 MeV Betatron. Photograph taken June 2, 1948

XBD201207-00399.TIF -- Radiation lab film badge on lab coat. Photograph taken June 21, 1948

XBD201207-00400.TIF -- Line drawing showing process of photosynthesis. Photograph taken June 23, 1948

XBD201207-00401.TIF -- Metal part to be used on Oregon cyclotron. Photo includes Ernest Orlando Lawrence (kneeling second from right.) Photograph taken July 7, 1948

XBD201207-00402.TIF -- Metal part to be used on Oregon cyclotron. Photo includes Ernest Orlando Lawrence (standing right.) Photograph taken July 7, 1948

XBD201207-00403.TIF -- Atomic exhibit. "The 184-inch synchro-cyclotron." Photograph taken July 1, 1948

XBD201207-00404.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Images of

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Nobel-prize winners. Photograph taken July 15, 1948

XBD201207-00405.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Image of professor and class. Photograph taken July 15, 1948

XBD201207-00406.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Photo of Hiroshima devastation after the dropping of an atomic bomb. Photograph of image taken July 15, 1948

XBD201207-00407.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Image of atomic mushroom cloud. Heading: "Peacetime research led to wartime development." Photograph of image taken July 15, 1948

XBD201207-00408.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Image of bomb burn victim. Photograph of image taken July 15, 1948

XBD201207-00409.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Atomic mushroom cloud from test Baker at Bikini Atoll. Photograph of image taken July 15, 1948

XBD201207-00421.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Radiation experiments on mice. Photograph of image taken July 15, 1948.

XBD201207-00422.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Uranium separation plant at Oak Ridge, Tennessee. Photograph of image taken July 15, 1948.

XBD201207-00423.TIF -- US Atomic Energy photographs in Life Magazine Exhibit showing an atomic explosion at Bikini Atoll. Photograph of image taken July 15, 1948.

XBD201207-00424.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Photograph of image taken July 15, 1948.

XBD201207-00425.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Diagram of plutonium and uranium process. Photograph of image taken July 15, 1948.

XBD201207-00426.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Test goat. Photograph of image taken July 15, 1948.

XBD201207-00427.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Miniature furnace. "Wartime development leads to peacetime use: power." Photograph of image taken July 15, 1948.

XBD201207-00428.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Radiation deformed ear of corn grown from a seed exposed to Bikini Atoll testing. Photograph of image taken July 15, 1948.

XBD201207-00429.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Handling plutonium. Photograph of image taken July 15, 1948.

XBD201207-00430.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Atomic energy conversion drawing. Photograph of image taken July 15, 1948.

XBD201207-00431.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Radiation shielding. Photograph of image taken July 15, 1948.

XBD201207-00432.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Nuclear reactor "pile" at Stagg Field at the University of Chicago. Photograph of image taken July 15, 1948.

XBD201207-00433.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Columbia University cyclotron. "Scientists: Dunning, Fermi, and Mitchell." Photograph of image taken July 15, 1948.

XBD201207-00434.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Oak Ridge "hot" lab. Photograph of image taken July 15, 1948.

XBD201207-00435.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Radiation in agriculture and therapy. Photograph of image taken July 15, 1948.

XBD201207-00436.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. Mining

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uranium, Great Bear Lake, Canada. Photograph of image taken July 15, 1948.
 XBD201207-00438.TIF -- US Atomic Energy photographs in Life Magazine Exhibit. LBL cyclotron, with William Brobeck and Edwin McMillan at right. Photograph of image taken July 15, 1948.
 XBD201207-00439.TIF -- Oregon cyclotron magnet with C. Wintersteen. Photograph taken October 25, 1948.
 XBD201207-00440.TIF -- Oregon cyclotron magnet. Photograph taken October 25, 1948.
 XBD201207-00441.TIF -- View of Berkeley and San Francisco Bay looking across the new road and the Central Research Lab excavation. Photograph taken November 11, 1948.
 XBD201207-00443.TIF -- View of Berkeley, Central Research Lab, Bevatron, and the parking lot with cars. Photograph taken March 17, 1949.
 XBD201207-00444.TIF -- View of parking lot near Bevatron excavation. Photograph taken May 4, 1949.
 XBD201207-00445.TIF -- Original dees from the 37-inch cyclotron. Photo taken for Morgan Gunst.
 XBD201207-00446.TIF -- Interphase transformer from Westinghouse, loaded on train flat car. Photograph taken January 24, 1950
 XBD201207-00447.TIF -- Interphase transformer from Westinghouse, loaded on train flat car. Photograph taken January 24, 1950
 XBD201207-00448.TIF -- Drawing of nuclear reactor uranium "pile." Photograph taken January 27, 1950
 XBD201207-00449.TIF -- Winterstein's original safety poster for wearing safety glasses. "William Penaluna in Harold Howerton's Shop Was Wearing These. He's Sold on Safety Goggles Are you?" See also XBD201207-00450.TIF. Photograph taken January 30, 1950
 XBD201207-00450.TIF -- Safety glasses on safety poster by Winterstein. See also XBD201207-00449.TIF. Photograph taken February 2, 1950
 XBD201208-00456.TIF -- North end of the 184-inch cyclotron area (Bevatron and Central Research) showing Bevatron under construction. Formerly confidential, declassified April 30, 1959. Photograph taken March 17, 1950.
 XBD201208-00457.TIF -- North end of the 184-inch cyclotron area (Bevatron and Central Research) showing Bevatron under construction. Formerly confidential, declassified April 30, 1959. Photograph taken March 17, 1950.
 XBD201208-00458.TIF -- 184-inch cyclotron area, looking south to synchrotron Building 25. Formerly confidential, declassified April 30, 1959. Photograph taken March 17, 1950.
 XBD201208-00459.TIF -- Fire damage to Building 8 (exterior.) Photograph taken April 24, 1950.
 XBD201208-00460.TIF -- Fire damage to Building 8 (interior.) Photograph taken April 24, 1950.
 XBD201208-00461.TIF -- Fire damage to Building 8 (exterior.) Photograph taken April 24, 1950.
 XBD201208-00462.TIF -- Fire damage to Building 8 (insulator shop.) Photograph taken April 25, 1950.
 XBD201208-00464.TIF -- Fire damage to Building 8. Photograph taken April 24, 1950.
 XBD201208-00465.TIF -- Fire damage to Building 8. Photograph taken April 23, 1950.
 XBD201208-00466.TIF -- Berkeley Fire Department photos of Building 8 fire. Photograph taken May 16, 1950.
 XBD201208-00467.TIF -- View of the Lab down towards North Berkeley, Albany Hill and the Bay with Bevatron in lower left. Photograph taken September 15, 1950.
 XBD201208-00468.TIF -- Progress of the shock wave from the Test Able explosion at Bikini Atoll, Operation Crossroads. Photograph of image taken October 3, 1950.
 XBD201208-00469.TIF -- Atomic bomb explosion at Bikini Atoll, July 1, 1946, 9 am, Operation

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Crossroads. Photograph of image taken October 3, 1950.
 XBD201208-00470.TIF -- Disintegration of a Colossus. Atomic bomb explosion at Bikini Atoll, Operation Crossroads. Photograph of image taken October 3, 1950.
 XBD201208-00471.TIF -- Disintegration of a Colossus. Atomic bomb explosion at Bikini Atoll, Operation Crossroads. Photograph of image taken October 3, 1950.
 XBD201208-00472.TIF -- Bomb versus Metropolis. Atomic bomb explosion superimposed over image of New York City. Photograph of image taken October 3, 1950.
 XBD201208-00473.TIF -- Atomic bomb cauliflower after-cloud at Bikini Atoll. Photograph of image taken October 3, 1950.
 XBD201208-00474.TIF -- Cloud-chamber effect observed after the underwater Baker" explosion at Bikini Atoll, from "The Effects of Atomic Weapons." Photograph of image taken October 3, 1950.
 XBD201208-00475.TIF -- Image and diagram of the "Trinity" test at Alamogordo, from "The Effects of Atomic Weapons." Photograph of image taken October 3, 1950.
 XBD201208-00476.TIF -- Spray dome following "Baker" explosion. Photograph of image taken October 3, 1950.
 XBD201208-00477.TIF -- Formation of the atomic plume column from the "Baker" test at Bikini Atoll, from "The Effects of Atomic Weapons." Photograph of image taken October 3, 1950.
 XBD201208-00478.TIF -- Waves from the "Baker" atomic test reaching the beach at Bikini Atoll. The maximum wave height at the shore was about seven feet, from "The Effects of Atomic Weapons." Photograph of image taken October 3, 1950.
 XBD201208-00479.TIF -- Map of the Bay Area showing distances to Livermore. Photograph taken October 18, 1950.
 XBD201208-00481.TIF -- 184-inch cyclotron area from north with Bevatron in foreground. Formerly confidential, declassified April 30, 1959. Photograph taken September 29, 1950.
 XBD201208-00482.TIF -- Map of San Francisco Bay Area with probable target points of atomic bombs. Photograph taken October 10, 1950.
 XBD201208-00483.TIF -- Berkeley firefighters and their equipment, includes fire truck. Photograph taken October 21, 1950.
 XBD201208-00486.TIF -- Press Day at Bevatron. Photograph taken November 22, 1950.
 XBD201208-00487.TIF -- Press Day at Bevatron. Photograph taken November 22, 1950.
 XBD201208-00488.TIF -- Press Day at Bevatron with Bevatron model. Photograph taken November 22, 1950.
 XBD201208-00489.TIF -- Press Day at Bevatron. Left to right: Donald Cooksey, Ernest Orlando Lawrence, and William Brobeck with Bevatron model. Photograph taken November 22, 1950.
 XBD201208-00490.TIF -- Ernest Orlando Lawrence, William Brobeck, Harold Fidler, and Donald Cooksey in the aperture of a Bevatron magnet section. Photograph taken November 22, 1950. See also XBD9606-02954.TIF
 XBD201208-00491.TIF -- Atomic Progress article from January 1, 1951. Image of cow used in radiation testing at UC Berkeley. Photograph of image from Life magazine taken February 20, 1951.
 XBD201208-00492.TIF -- Lab view with Bevatron in center. Formerly confidential, declassified April 30, 1959. Photograph taken March 29, 1951.
 XBD201208-00493.TIF -- Lab in Building 4, Room 203 showing crowded conditions. Photograph taken April 9, 1951.
 XBD201208-00494.TIF -- Foundry, Building 7. Photograph taken April 11, 1951.
 XBD201208-00527.TIF -- Firehouse and truck, Building 60 near the 184-inch cyclotron. Photograph taken April 10, 1951.
 XBD201208-00528.TIF -- Lab in Building 4, Room 203 showing crowded conditions. Photograph

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taken June 1, 1951.
 XBD201208-00529.TIF -- Back of Building 4, site of study on crowded conditions. Photograph taken June 1, 1951.
 XBD201208-00530.TIF -- Building 10, lantern tank. View showing crowded research conditions. Photograph taken June 13, 1951.
 XBD201208-00531.TIF -- Building 6, view of test magnets to showing crowded research conditions. Photograph taken June 13, 1951.
 XBD201208-00532.TIF -- General view of 184-inch cyclotron area with Bevatron in foreground. Infrared photograph. Formerly confidential. Declassified 4/30/1959. Photograph taken April 1951.
 XBD201208-00533.TIF -- Outside of homogeneous reactor and its concrete shielding at Los Alamos. Photograph of image in Scientific American, April 1951. Photograph taken July 19, 1951.
 XBD201208-00535.TIF -- Lawrence Berkeley National Laboratory (LBNL) as it appeared in 1951. The Bevatron occupies the central round building. The 184-inch cyclotron sits under the dome above it. Formerly confidential. Declassified 4/30/1959. Photograph taken August 1951.
 XBD201208-00536.TIF -- The iron-carbon diagram. Photograph of 1940 image taken May 7, 1952.
 XBD201208-00537.TIF -- Wise Owl Club. Accident prevented by safety glasses. William Penaluna with shattered safety glasses. See also: XBD201208-00538.TIF. Photograph taken May 21, 1952.
 XBD201208-00538.TIF -- Wise Owl Club display table. Display shows three workers wearing safety glasses. See also: XBD201208-00537.TIF. Photograph taken June 4, 1952.
 XBD201208-00539.TIF -- Wise Owl Club. Accident prevented by face-shield. Gordon Lloyd with shattered face-shield. See also: XBD201208-00538.TIF. Photograph taken May 21, 1952.
 XBD201208-00540.TIF -- Disaster demonstration First Aid group. Photograph taken June 25, 1952.
 XBD201208-00541.TIF -- Fire truck for the 184-inch cyclotron area. Photograph taken April 15, 1952.
 XBD201208-00542.TIF -- Edwin McMillan's Nobel Prize medal. Photograph taken July 28, 1952.
 XBD201208-00543.TIF -- Model of the 184-inch cyclotron area. Photograph taken August 6, 1952.
 XBD201208-00544.TIF -- Merv Grey and Jim Hodges. Synchrotron oscillator overhaul. For Mantell personnel office. Photograph taken November 26, 1952.
 XBD201208-00545.TIF -- Linear accelerator injector. Bevatron accelerator technicians checking vacuum system and electronics technicians checking oscillators. Photograph taken March 12, 1953.
 XBD201208-00546.TIF -- Pigatron #1 in Building 14. A pigatron is an instrument which measures microsecond time intervals by counting pulses from a 100 Mc CW oscillator Formerly confidential. Declassified 4/30/1959. Photograph taken December 7, 1954.
 XBD201208-00547.TIF -- Safety awards. Left to right: Donald Cooksey, Glenn Seaborg, M. Leavitt, and Carroll Winterstein. Photograph taken September 22, 1955.
 XBD201208-00548.TIF -- Award of Merit presented to Harold Fidler by Ernest Orlando Lawrence and Carroll Winterstein. Photograph taken November 16, 1955.
 XBD201208-00549.TIF -- Laboratory personnel graph. Showing staff numbers from 1942-1956 with important dates plotted (includes Livermore). Used for W.B Reynolds talk on the future of the lab. Photograph taken February 15, 1956.
 XBD201208-00550.TIF -- Giovanni Gronchi, Italy's President, touring the Bevatron, Building 51 with Ernest Orlando Lawrence and others. Photograph taken March 9, 1956.
 XBD201208-00551.TIF -- Giovanni Gronchi, Italy's President, touring the Bevatron, Building 51 with Ernest Orlando Lawrence and others. Photograph taken March 12, 1956.
 XBD201208-00552.TIF -- Giovanni Gronchi, Italy's President (center,) touring the Bevatron. Robert Gordon Sproul, UC Berkeley President (right.) Photograph taken March 12, 1956.
 XBD201208-00553.TIF -- Loren Dodds. Inspects 48-inch storm sewer. Photograph taken March

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15, 1956.

XBD201208-00554.TIF -- Information Division vault in Building 50 showing rows of file folders and documents on shelves. Photograph taken April 16, 1957.

XBD201208-00555.TIF -- Emilio Segre (left) and Clyde Weigand in front of the meson antiproton antineutron display. Photograph taken April 1958.

XBD201208-00556.TIF -- 72-inch bubble chamber model, displayed at 1959 Brussels World's Fair. Photograph taken April 3, 1959.

XBD201208-00557.TIF -- 72-inch bubble chamber model, displayed at 1959 Brussels World's Fair. Left to right: Paul Hernandez, Winona Bucklin, Jim Shand, H. Gordon, Ray Wakerling. Photograph taken April 3, 1959.

XBD201208-00558.TIF -- 72-inch bubble chamber model, displayed at 1959 Brussels World's Fair. Left to right: Jim Shand, and Paul Hernandez. Photograph taken April 3, 1959.

XBD201208-00559.TIF -- 72-inch bubble chamber model with labeled parts. Photograph taken May 27, 1960.

XBD201208-00566.TIF -- Replica of the first cyclotron. Photograph taken April 11, 1958.

XBD201208-00568.TIF -- Xenon arc lamp #50601. Photograph taken May 20, 1958.

XBD201208-00574.TIF -- Building 50 tour, 72-inch bubble chamber. Photograph taken July 2, 1958.

XBD201208-00577.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory with Edwin McMillan and Glenn Seaborg. Photograph taken November 25, 1958.

XBD201208-00581.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory with Edwin McMillan and Glenn Seaborg. Photograph taken November 25, 1958.

XBD201208-00584.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory with Edwin McMillan and Glenn Seaborg. Photograph taken November 25, 1958.

XBD201208-00588.TIF -- Queen Frederika of Greece visiting the Bevatron control room, Ed Lofgren behind the Queen. Photograph taken November 25, 1958.

XBD201208-00590.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory. Edwin McMillan (left,) Luis Alvarez (right.) Photograph taken November 25, 1958.

XBD201208-00593.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory. The Queen standing by bubble chamber with Luis Alvarez (left,) Ed Lofgren (second from right,) and Edwin McMillan (right.) Photograph taken November 25, 1958.

XBD201208-00595.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory. Edwin McMillan (second from right,) and Glenn T. Seaborg (right.) Photograph taken November 25, 1958.

XBD201208-00598.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory. Glenn T. Seaborg shaking the Queen's hand and Edwin McMillan, center. Photograph taken November 25, 1958.

XBD201208-00601.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory. Photograph taken November 25, 1958.

XBD201208-00604.TIF -- Queen Frederika of Greece visiting the Radiation Laboratory. Edwin McMillan (to the left of the Queen,) from the Queen's right, Luis Alvarez and Ed Lofgren. Photograph taken November 25, 1958.

XBD201208-00605.TIF -- Atomic Energy Commission medal presented to Ernest Orlando Lawrence for "Especially Meritorious Contributions to the Development, Use, or Control of Atomic Energy, December 2, 1957." Photograph taken January 9, 1959.

XBD201208-00606.TIF -- The President of the United States and the Atomic Energy Commission Award. "Pursuant to the Authority of the Atomic Energy Act of 1954 for the Granting of Awards for Especially Meritorious Contributions to the Development, Use, or Control of Atomic Energy, Grant." Photograph taken January 9, 1959.

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XBD201208-00609.TIF -- Certificate proclaiming the awarding of the Sylvanus Thayer (West Point) Medal to Ernest Orlando Lawrence. Photograph taken January 9, 1959.

XBD201208-00613.TIF -- Sylvanus Thayer (West Point) medal, (back) for outstanding service to the nation. Photograph taken January 9, 1959.

XBD201208-00614.TIF -- Sylvanus Thayer (West Point) medal, (obverse) for outstanding service to the nation. Photograph taken January 9, 1959.

XBD201208-00615.TIF -- Enrico Fermi Award presented to Ernest Orlando Lawrence for "his invention and development of the cyclotron and for his many other contributions in nuclear physics and atomic energy, December 2, 1957." Photograph taken January 9, 1959.

XBD201208-00616.TIF -- Enrico Fermi Award and Atomic Energy Commission Award. Image is a combination of XBD20120-00615.TIF and XBD201208-00606.TIF. Photograph taken January 9, 1959.

XBD201208-00617.TIF -- Enrico Fermi Award Medal, (obverse.) Photograph taken January 9, 1959.

XBD201208-00618.TIF -- Model of the Radiation Laboratory hill area (Lawrence Berkeley Laboratory.) Map includes the Bevatron and 184-inch cyclotron buildings. Photograph taken January 16, 1959.

XBD201208-00619.TIF -- Photo of Jackass Flats, a shallow alluvial basin in Area 25 of the Nevada National Security (Test) Site. Photo order by M. Edlund for AEC Office Photograph taken March 26, 1959.

XBD201208-00620.TIF -- Soviet/Russian Lab visitors. From left, Soviet Ambassador to the US Mikhail Menshikov; Frol Kozlov (First Deputy Chairman, USSR Council of Ministers), interpreter; Robert Thornton, Radiation Laboratory; and Berkeley Police Inspector C. W. O'Meara (right rear). Photograph taken July 6, 1959.

XBD201208-00621.TIF -- Soviet/Russian Lab visitors. Frol Kozlov (First Deputy Chairman, USSR Council of Ministers), interpreter; and Edwin McMillan, Radiation Laboratory. Photograph taken July 6, 1959.

XBD201208-00622.TIF -- Soviet/Russian Lab visitors. Edwin McMillan, Radiation Laboratory; Frol Kozlov (First Deputy Chairman, USSR Council of Ministers), interpreter; Commissioner Floberg, AEC, center, far back. Photograph taken July 6, 1959.

XBD201209-00623.TIF -- Composite picture of the moon with location and feature names (courtesy of the Lick Observatory). Photo taken from a General Electric Aerosciences Laboratory Bulletin. Photograph taken December 2, 1959.

XBD201208-00624.TIF -- Insulator shop. Photograph taken September 6, 1946.

XBD201208-00625.TIF -- Parking area along road near the 184-inch cyclotron building. Photograph taken October 29, 1946.

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Box

1 Photos:

- XBD201208-00702.TIF -- Magnet measuring device (ORL.) Formerly confidential. Photograph taken March 10, 1943. Magnet-8.
- XBD201208-00703.TIF -- Filings under tent for current direction in magnet model room. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken March 12, 1943. Magnet-10.
- XBD201208-00704.TIF -- Filings under tent for current direction in magnet model room. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken March 11, 1943. Magnet-15.
- XBD201208-00705.TIF -- Magnet measuring device. Formerly confidential. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken March 19, 1943. Magnet-19.
- XBD201208-00706.TIF -- Magnetic shims. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly restricted. Photograph taken March 26, 1943. Magnet-21.
- XBD201208-00707.TIF -- X-Apha with magnetic field tester. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken March 27, 1943. Magnet-22.
- XBD201208-00708.TIF -- Two gap X-Beta with pantograph brand. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken April 3, 1943. Magnet-23.
- XBD201208-00709.TIF -- Two gap X-Beta. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory;Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken April 3, 1943. Magnet-24.
- XBD201208-00710.TIF -- Iron filings two gap X-Beta 28 amperes. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly restricted. Photograph taken April 3, 1943. Magnet-26.
- XBD201208-00711.TIF -- Iron filing shot (showing X-Beta pattern), residual fluid only. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken April 3, 1943. Magnet-27.
- XBD201208-00712.TIF -- 20 gap X-Beta. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak

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Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken April 3, 1943. Magnet-28.

XBD201208-00713.TIF -- Magnetic field tracings, iron filings, in Magnet Lab. Formerly confidential. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly restricted. Photograph taken April 27, 1943. Magnet-33.

XBD201208-00714.TIF -- J-B magnet coils and tanks going to annex. Formerly confidential. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken May 6, 1943. Magnet-44.

XBD201208-00715.TIF -- Looking down on new magnet construction by 184-inch cyclotron. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken May 13, 1943. Magnet-46.

XBD201208-00716.TIF -- New magnets. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken May 14, 1943. Magnet-47.

XBD201208-00717.TIF -- X-Alpha magnet testing equipment. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken May 18, 1943. Magnet-48.

XBD201208-00718.TIF -- End of magnet base, 184-inch cyclotron. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly restricted. Photograph taken May 21, 1943. Magnet-49.

XBD201208-00719.TIF -- Along side of magnet base. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly restricted. Photograph taken May 21, 1943. Magnet-50.

XBD201208-00720.TIF -- Coil winding mechanism, 184-inch cyclotron. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly restricted. Photograph taken June 2, 1943. Magnet-53.

XBD201208-00721.TIF -- Coil winding mechanism, 184-inch cyclotron. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken June 4, 1943. Magnet-55.

XBD201208-00722.TIF -- Magnetic field scanner, 184-inch cyclotron. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence

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Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Formerly confidential. Photograph taken June 9, 1943. Magnet-57.

XBD201208-00723.TIF -- Two workmen and the 184-inch magnet. Formerly restricted. Photograph taken June 18, 1943. Magnet-59.

XBD201208-00724.TIF -- J.C. magnet with coils in the 184-inch annex. Formerly restricted. Photograph taken June 22, 1943.

XBD201208-00725.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken June 26, 1943. Magnet-62.

XBD201208-00726.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Laboratory Photographer, Cedric Wright, (far right) shown here with unknown individual, possibly Sam Simmons. Formerly confidential. Photograph taken June 24, 1943. Magnet-61.

XBD201208-00727.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken June 3, 1943. Magnet-66.

XBD201208-00728.TIF -- Muriel (the woman) sitting in field scanner equipment, named for her. Formerly confidential. Photograph taken July 2, 1943. Magnet-67.

XBD201208-00729.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken June 2, 1943. Magnet-68.

XBD201208-00730.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken June 2, 1943. Magnet-68.

XBD201208-00731.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken July 6, 1943. Magnet-71.

XBD201208-00732.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken July 5, 1943. Magnet-72.

XBD201208-00733.TIF -- Gears on tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken June 7, 1943. Magnet-73.

XBD201208-00734.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken July 7, 1943. Magnet-74.

XBD201208-00735.TIF -- Detail of tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly restricted. Photograph taken July 13, 1943. Magnet-75.

XBD201208-00736.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken July 22, 1943. Magnet-77A.

XBD201208-00737.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken July 26, 1943. Magnet-79.

XBD201208-00738.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken July 26, 1943. Magnet-80.

XBD201208-00739.TIF -- Film puller with posters reminding people using equipment of importance of secrecy during wartime. Includes caricatures of Adolph Hitler. Wilson Powell group. Formerly confidential. Photograph taken July 27, 1943. Magnet-82.

XBD201208-00740.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken August 4, 1943. Magnet-88.

XBD201208-00741.TIF -- Coil on tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken August 5, 1943. Magnet-89.

XBD201208-00742.TIF -- Face plate on field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken August 6, 1943. Magnet-91.

XBD201208-00773.TIF -- Arc of coils on field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken August 7, 1943. Magnet-92.

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XBD201208-00774.TIF -- Coil on tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken August 10, 1943. Magnet-94.

XBD201208-00775.TIF -- Field scanner equipment referred to as "Muriel" with car wheels on. Formerly confidential. Photograph taken August 10, 1943. Magnet-95.

XBD201208-00776.TIF -- Film box in glass room. Associated with Wilson Marcy Powell. Formerly restricted. Photograph taken August 11, 1943. Magnet-102.

XBD201208-00777.TIF -- Film box in glass room. Associated with Wilson Marcy Powell. Formerly restricted. Photograph taken August 11, 1943. Magnet-105.

XBD201208-00778.TIF -- Film box in glass room. Associated with Wilson Marcy Powell. Formerly restricted. Photograph taken August 11, 1943. Magnet-106.

XBD201208-00779.TIF -- Looking down on field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken August 12, 1943. Magnet-108.

XBD201208-00780.TIF -- Clutch and motor unit, front view. Associated with Wilson Marcy Powell and Oak Ridge National Laboratory (ORL.) "Formerly restricted. Photograph taken August 12, 1943. Magnet-110.

XBD201208-00781.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric." Formerly confidential. Photograph taken August 12, 1943. Magnet-118.

XBD201208-00782.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric" with field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken August 12, 1943. Magnet-123.

XBD201208-00783.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric," looking out of tanks, X-Alpha. Formerly confidential. Photograph taken August 16, 1943. Magnet-129.

XBD201208-00784.TIF -- Field scanner equipment referred to as "Muriel." Formerly confidential. Photograph taken August 25, 1943. Magnet-132.

XBD201208-00785.TIF -- Tie-in survey device for alpha magnetic field measurement, referred to as "Cedric," shown in place. Formerly confidential. Photograph taken August 26, 1943. Magnet-135.

XBD201208-00786.TIF -- Yoke of alpha-6 magnet. Formerly confidential. Photograph taken September 24, 1943. Magnet-139.

XBD201208-00787.TIF -- Powell's alpha-6 model magnet. Wilson Marcy Powell, in black on left. Formerly confidential. Photograph taken September 24, 1943. Magnet-140.

XBD201208-00788.TIF -- Four women taping the 184-inch magnet coils. Photograph taken September 29, 1943. Magnet-143.

XBD201208-00789.TIF -- 184-inch cyclotron magnet. Photograph taken October 8, 1943. Magnet-146.

XBD201208-00790.TIF -- JB 184-inch cyclotron magnet coils. Photograph taken October 12, 1943. Magnet-147.

XBD201208-00791.TIF -- 184-inch cyclotron magnet model, Henry Hofacker's welding shop. Photograph taken October 21, 1943. Magnet-148.

XBD201208-00792.TIF -- Wilson Marly Powell's magnet. Formerly confidential. Photograph taken October 25, 1943. Magnet-151.

XBD201208-00793.TIF -- Stray field iron filing pattern in "Powell's penthouse." Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken November 13, 1943. Magnet-154.

XBD201208-00794.TIF -- Stray field iron filing pattern in "Powell's penthouse." Associated with

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Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken November 13, 1943. Magnet-156.

XBD201208-00795.TIF -- Alpha-6 iron filing pattern in "Powell's penthouse." Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken November 16, 1943. Magnet-159.

XBD201208-00802.TIF -- Alpha-6 iron filing pattern in "Powell's penthouse." Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken November 16, 1943. Magnet-165.

XBD201208-00808.TIF -- Alpha-6 iron filing pattern in "Powell's penthouse." Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken November 17, 1943. Magnet-167.

XBD201208-00809.TIF -- Looking down from crane at Powell's magnet. Formerly confidential. Photograph taken November 26, 1943. Magnet-178.

XBD201208-00810.TIF -- Complete coil and coil assembly of Powell's magnet. Formerly restricted. Photograph taken November 27, 1943. Magnet-179.

XBD201208-00811.TIF -- Complete coil and coil assembly of Powell's magnet. Formerly restricted. Photograph taken November 27, 1943. Magnet-181.

XBD201208-00812.TIF -- Roving R-car. Formerly confidential. Photograph taken December 1, 1943.

XBD201208-00813.TIF -- Powell's Alpha-2 model magnet coil. Photograph taken January 7, 1944. Magnet-183.

XBD201208-00819.TIF -- Powell's new magnet with four unnamed men looking on. Formerly restricted. Photograph taken January 10, 1944. Magnet-186.

XBD201208-00820.TIF -- Winding coils for new model magnet. Photograph taken January 9, 1944. Magnet-187.

XBD201208-00821.TIF -- Model magnet. Photograph taken February 22, 1944. Magnet-188.

XBD201208-00822.TIF -- Magnetic field measuring device, referred to as "Oscar." Photograph taken February 26, 1944. Magnet-191.

XBD201208-00823.TIF -- Magnetic field measuring device for moving test coil through magnet field, referred to as "Oscar." Photograph taken February 26, 1944. Magnet-193.

XBD201208-00824.TIF -- Paragon protractor. Photograph taken March 9, 1944. Magnet-194.

XBD201208-00825.TIF -- Magnetic field measuring equipment. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken March 10, 1944. Magnet-195.

XBD201208-00826.TIF -- New developments on magnets. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken March 28, 1944. Magnet-198.

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XBD201208-00827.TIF -- Beta model. 15.3 model tests magnet, 2.1 magnet model. Formerly confidential. Photograph taken April 4, 1944. Magnet-199.

XBD201208-00828.TIF -- New sealed, adjustable pantograph frame with scaled potentiometer brackets and newly constructed scaled potentiometer. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken April 10, 1944. Magnet-201.

XBD201208-00829.TIF -- Equipment for Z measurements with removal coil holder and protractor. Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken April 20, 1944. Magnet-203.

XBD201208-00830.TIF -- Magnetic field measuring device for moving test coil through magnet field, referred to as "Oscar." Photograph taken April 27, 1944. Magnet-204.

XBD201208-00831.TIF -- Alpha-2 coil and core assembly without faceplate (alpha model #6). Associated with Wilson Marcy Powell, Professor of Physics, UC Berkeley, Lawrence Berkeley Laboratory, Lawrence Livermore Laboratory, and Oak Ridge National Laboratory; Guggenheim Fellowship, Manhattan Project, 184-inch cyclotron, head of magnet group. Photograph taken May 18, 1944. Magnet-209.

XBD201208-00832.TIF -- Box car search flip coil support. Hofacker's shop, Powell and Ball group. Photograph taken May 31, 1944. Magnet-216.

XBD201208-00833.TIF -- Equipment referred to as "Noah," an oscilloscope field measuring track (using parts from "Oscar.") Powell and Ball group. Photograph taken June 8, 1944. Magnet-217

XBD201208-00834.TIF -- Equipment referred to as "Noah," an oscilloscope field measuring track (using parts from "Oscar.") Powell and Ball group. Photograph taken June 8, 1944. Magnet-219.

XBD201208-00835.TIF -- Slide wire potentiometer for "Noah," an oscilloscope field measuring track, using parts from "Oscar." Powell and Ball group. Photograph taken June 8, 1944. Magnet-221.

XBD201208-00836.TIF -- Coil winding set up for "Z" analyzer. Associated with Wilson Marly Powell. Photograph taken June 22, 1944. Magnet-222.

XBD201208-00837.TIF -- Analyzer "Z" coils. Associated with Wilson Marly Powell. Photograph taken June 27, 1944. Magnet-225.

XBD201208-00838.TIF -- Superman boxcar "Z" measuring device. Photograph taken June 27, 1944. Magnet-227.

XBD201208-00839.TIF -- McNeal "Z," Associated with Ball group. Photograph taken July 3, 1944. Magnet-231.

XBD201208-00840.TIF -- Model shim set up. Formerly restricted. Photograph taken May 17, 1945. Magnet-273.

XBD201208-00841.TIF -- Liverpool magnet. Formerly restricted. Photo taken on location in Liverpool, England for Wilson Marly Powell. Photograph taken May 24, 1945. Magnet-275.

XBD201208-00842.TIF -- Beta tanks in alpha. Powell and Ball group. Formerly restricted. Photograph taken May 24, 1945. Magnet-274.

XBD201208-00843.TIF -- Cherybdus model magnet, XC model. Powell group. Formerly restricted. Photograph taken June 2, 1945. Magnet-278.

XBD201208-00844.TIF -- Method of triple wrapping magnet, for Powell. Photograph taken June 4, 1945. Magnet-280.

XBD201208-00845.TIF -- 184-inch model magnet. Formerly confidential. Photograph taken July 26, 1945. Magnet-281.

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XBD201208-00846.TIF -- Flux meter light source. Photograph taken May 28, 1946. Magnet-320.

XBD201208-00847.TIF -- Standard flip coil. Photograph taken May 28, 1946. Magnet-325.

XBD201208-00848.TIF -- Standard flip coil. Photograph taken May 28, 1946. Magnet-326.

XBD201208-00849.TIF -- Model of Harvard cyclotron magnet. Photograph taken February 8, 1946. Magnet-308.

XBD201208-00850.TIF -- Boxcar. Photograph taken May 28, 1946. Magnet-311.

XBD201208-00851.TIF -- Pantagraph complete. Photograph taken May 27, 1946. Magnet-312.

XBD201208-00852.TIF -- Close up of rack and pinion. Photograph taken May 28, 1946. Magnet-313.

XBD201208-00853.TIF -- Close up of flux meter with lens. Photograph taken May 28, 1946. Magnet-314.

XBD201208-00854.TIF -- Pantagraph complete. Photograph taken May 28, 1946. Magnet-315.

XBD201208-00855.TIF -- Microswitch photo scheme. Photograph taken May 28, 1946. Magnet-319.

XBD201208-00856.TIF -- Cloud chamber model magnet. Photograph taken August 21, 1946. Magnet-346.

XBD201208-00857.TIF -- Galvanometer deflection patterns for magnet test. Image labeled "secret." Photograph taken September 1, 1948. Magnet-350.

XBD201208-00858.TIF -- D.C. amplifier integrator (magnetic measurements.) Associated with C.S. Presenz. Photograph taken August 13, 1949. Magnet-358.

XBD201208-00859.TIF -- EMF balance and shorting switch panel. Associated with C.S. Presenz. Photograph taken July 8, 1949. Magnet-362.

XBD201208-00860.TIF -- Magnetic measurement integrator cabinet. Photograph taken July 8, 1949. Magnet-364.

XBD201208-00861.TIF -- Cascade integrator. Associated with C.S. Presenz. Photograph taken August 31, 1949. Magnet-368.

XBD201208-00862.TIF -- Sid .2 model magnet in Building 6 (1/16 scale of Harvard cyclotron magnet). Photograph taken December 23, 1949. Magnet-370.

XBD201208-00863.TIF -- Sid .2 model magnet in Building 6 (1/16 scale of Harvard cyclotron magnet). Photograph taken December 23, 1949. Magnet-371.

XBD201208-00864.TIF -- 5-inch "Annie" in Westinghouse "Z." Equipment referred to "Annie" is hidden between the coil poles. Photograph taken July 8, 1944. Magnet-233.

XBD201208-00865.TIF -- 6-inch square "Annie." 1-inch gap for dry dock with pig pressure gauge. Formerly restricted. Photograph taken July 31, 1944. Magnet-234.

XBD201208-00866.TIF -- Alpha 2 B 1/8-inch model section. Formerly restricted. Photograph taken August 26, 1944. Magnet-244.

XBD201208-00867.TIF -- Contour plotter being used on XaI. Photograph taken October 31, 1944. Magnet-257.

XBD201208-00868.TIF -- Equipment referred to as "Annie Z." Photograph taken February 23, 1945. Magnet-259.

XBD201208-00869.TIF -- View of a B Z with end yoke. Photograph taken April 13, 1945. Magnet-260.

XBD201208-00870.TIF -- Pantagraph with selsyen motor. Photograph taken April 13, 1945. Magnet-261.

XBD201208-00871.TIF -- Flip coil holder for contour mapping. Associated with Wilson Marly Powell. Photograph taken April 19, 1945. Magnet-267.

XBD201208-00872.TIF -- Station 131 conduits ABCD (refers to the four levels). Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken July 20, 1950. Measurements Project-

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1. XBD201208-00873.TIF -- Station 131 conduits (ABCD refers to the four levels.) Associated with 184-inch cyclotron and Measurements Project Development. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken July 20, 1950. Measurements Project-2.
- XBD201208-00874.TIF -- Station 131 conduits (ABCD refers to the four levels.) Associated with 184-inch cyclotron and Measurements Project Development. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken July 20, 1950. Measurements Project-3.
- XBD201208-00875.TIF -- Combination supply 1402, 1403. Associated with C.S. Prezenz. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken August 28, 1950. Measurements Project-17.
- XBD201208-00876.TIF -- 30kV high voltage power supply. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken September 13, 1950. Measurements Project-40.
- XBD201208-00877.TIF -- Sweep generator trigger. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken September 18, 1950. Measurements Project-51.
- XBD201208-00878.TIF -- Integrating electrometer. Photograph taken November 13, 1950. Measurements Project-80.
- XBD201208-00879.TIF -- Integrating electrometer. Photograph taken November 13, 1950. Measurements Project-82.
- XBD201208-00880.TIF -- 50kV power supply. Photograph taken November 17, 1950. Measurements Project-90.
- XBD201208-00881.TIF -- 50kV power supply. Photograph taken November 17, 1950. Measurements Project-91.
- XBD201208-00882.TIF -- 50kV power supply. Photograph taken November 17, 1950. Measurements Project-92.
- XBD201208-00883.TIF -- Vacuum proving lines (8-inch,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-93.
- XBD201208-00884.TIF -- Vacuum proving lines (8-inch - 30-inch junction,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-95.
- XBD201208-00885.TIF -- Vacuum proving lines (low,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-94.
- XBD201208-00886.TIF -- Vacuum proving lines (30-inch - 8-inch junction,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-97.
- XBD201208-00887.TIF -- Vacuum proving lines (30-inch - 8-inch junction,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-98.
- XBD201208-00888.TIF -- Vacuum proving lines (8-inch joints,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-99.
- XBD201208-00889.TIF -- Vacuum proving lines (vacuum and refrigeration systems,) Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken November 29, 1950. Measurements Project-100.
- XBD201208-00890.TIF -- Suspension yoke. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken December 4, 1950. Measurements Project-102.

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XBD201208-00891.TIF -- Suspension yoke. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken December 4, 1950. Measurements Project-103.

XBD201208-00892.TIF -- Model K dual scope, Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken December 11, 1950. Measurements Project-112.

XBD201208-00893.TIF -- Model K dual scope, Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken December 11, 1950. Measurements Project-116.

XBD201208-00894.TIF -- Sweep generator, Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken December 11, 1950. Measurements Project-137.

XBD201208-00895.TIF -- 1/10 pulser model 2H, Lawrence Livermore National Laboratory. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken December 11, 1950. Measurements Project-139.

XBD201208-00896.TIF -- Hi-speed scope. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken January 4, 1951. Measurements Project-176.

XBD201208-00897.TIF -- Hi-speed scope. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken January 4, 1951. Measurements Project-177.

XBD201208-00898.TIF -- Heat transfer sled. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken January 9, 1951. Measurements Project-188.

XBD201208-00899.TIF -- Hi-speed test scope model K. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken January 17, 1951. Measurements Project-197.

XBD201208-00900.TIF -- Cu (copper) plating of blocking condensers. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken January 26, 1951. Measurements Project-212.

XBD201208-00901.TIF -- 0.1 m-sec pulser, model II A. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken January 29, 1951. Measurements Project-214.

XBD201208-00902.TIF -- K10-56 cathode gun. Formerly "For Official Use Only." Unclassified 9/15/1965. Photograph taken February 2, 1951. Measurements Project-221.

XBD201208-00903.TIF -- Measurements Project Group associated with Atom Bomb testing at Eniwetok Atoll. Between July 1945 and November 1962 the United States conducted at least 216 atmospheric and underwater nuclear tests. Ernest Orlando Lawrence, third row from front, second from right. Photograph taken July 23, 1951. Measurements Project-262.

XBD201208-00904.TIF -- The Las Vegas atom bomb as seen from Mount Wilson, California, about 225 miles away. Stan Wilks and Dave Twining, two Caltech students, are in the foreground. Original caption reads, "The bomb attracted a large group of students and other people who thronged the hills." Photograph taken by the Los Angeles Mirror. Photograph taken February 6, 1951.

XBD201209-00905.TIF -- Capacity voltage divider. Photograph taken December 3, 1945. LINAC-1.

XBD201209-00906.TIF -- Transmitter BC 407. Photograph taken December 7, 1945. LINAC-5.

XBD201209-00907.TIF -- Pulser. Photograph taken December 13, 1945. LINAC-8.

XBD201209-00908.TIF -- Test cavity. Photograph taken December 12, 1945. LINAC-10.

XBD201209-00909.TIF -- Test cavity. Photograph taken December 12, 1945. LINAC-11.

XBD201209-00910.TIF -- Pulser. Photograph taken December 11, 1945. LINAC-14.

XBD201209-00911.TIF -- Pulser. Photograph taken December 11, 1945. LINAC-15.

XBD201209-00912.TIF -- #2 pulser power supply. Photograph taken December 11, 1945. LINAC-16.

XBD201209-00913.TIF -- Pulser. Photograph taken December 11, 1945. LINAC-17.

XBD201209-00914.TIF -- Probe power supply. Photograph taken December 11, 1945. LINAC-18.

<h2 style="margin: 0;">Ernest Orlando Lawrence Berkeley National Laboratory</h2> <h3 style="margin: 0;">Records Transmittal</h3>
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XBD201209-00915.TIF -- Probe power supply. Photograph taken December 11, 1945. LINAC-19.
 XBD201209-00916.TIF -- Meter panel. Photograph taken December 11, 1945. LINAC-20.
 XBD201209-00917.TIF -- 205 megacycle cavity resonator. Photograph taken November 7, 1945. LINAC-22.
 XBD201209-00918.TIF -- Lecher wire system. Photograph taken December 18, 1945. LINAC-25.
 XBD201209-00919.TIF -- Interlock for condenser cage. Photograph taken December 20, 1945. LINAC-27.

Container **Of**

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Box

1 Photos:

- XBD201209-00920.TIF -- Linac equipment associated with Oppenheimer. Photograph taken January 3, 1946. LINAC-32.
- XBD201209-00921.TIF -- Experimental oscillator. Photograph taken January 17, 1946. LINAC-33.
- XBD201209-00922.TIF -- Linac equipment associated with Oppenheimer. Photograph taken January 16, 1946. LINAC-34.
- XBD201209-00923.TIF -- Apparatus to study scattering of zirconium. Photograph taken January 19, 1946. LINAC-35.
- XBD201209-00924.TIF -- Sweep and pulse generator. Photograph taken January 27, 1946. LINAC-40.
- XBD201209-00925.TIF -- 10-inch resonance chamber. Photograph taken February 11, 1946. LINAC-51.
- XBD201209-00926.TIF -- Cavity feedback oscillator. Photograph taken February 18, 1946. LINAC-57.
- XBD201209-00927.TIF -- Cavity feedback oscillator. Photograph taken February 19, 1946. LINAC-60.
- XBD201209-00928.TIF -- Hydrogen circulatory system for Van de Graaff arc source. Photograph taken February 28, 1946. LINAC-64.
- XBD201209-00929.TIF -- Modulator for BC-677 oscillator. Photograph taken March 4, 1946. LINAC-69.
- XBD201209-00930.TIF -- Van de Graaff generator mockup. Photograph taken March 13, 1946. LINAC-70.
- XBD201209-00931.TIF -- Ion source. Photograph taken March 20, 1946. LINAC-77.
- XBD201209-00932.TIF -- Ion source. Photograph taken March 20, 1946. LINAC-78.
- XBD201209-00933.TIF -- The Bird Cage associated with the Linac. Photograph taken March 21, 1946. LINAC-80.
- XBD201209-00934.TIF -- Van de Graaff generator ion source assembly. Photograph taken March 22, 1946. LINAC-82.
- XBD201209-00935.TIF -- BC 677 oscillator. Photograph taken April 10, 1946. LINAC-88.
- XBD201209-00936.TIF -- Van de Graaff ion source. Photograph taken April 22, 1946. LINAC-96.
- XBD201209-00937.TIF -- Left: cavity linear accelerator. Right: cover plate linear accelerator. Photograph taken May 2, 1946. LINAC-101.
- XBD201209-00938.TIF -- Linac model 10 cm diameter. Photograph taken May 14, 1946. LINAC-104.
- XBD201209-00939.TIF -- Rotary spark gap for line pulser. Photograph taken May 18, 1946. LINAC-106.
- XBD201209-00940.TIF -- Resonator. Photograph taken May 20, 1946. LINAC-107.
- XBD201209-00941.TIF -- Synchronizer. Photograph taken May 25, 1946. LINAC-115.
- XBD201209-00942.TIF -- Synchronizer. Photograph taken May 25, 1946. LINAC-116.
- XBD201209-00943.TIF -- Experimental line pulser with rotary gap. Photograph taken June 8, 1946. LINAC-119.
- XBD201209-00944.TIF -- Army radar truck. Photograph taken June 12, 1946. LINAC-121.
- XBD201209-00945.TIF -- Army radar truck. Photograph taken June 12, 1946. LINAC-123.
- XBD201209-00946.TIF -- Vacuum cavity, 36-inch section. Photograph taken June 19, 1946. LINAC-129.
- XBD201209-00947.TIF -- Linear accelerator, 36-inch vacuum model tuning control. Photograph taken June 14, 1946. LINAC-131.

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XBD201209-00948.TIF -- Graded drift tube chamber, 37-inch model. Photograph taken June 23, 1946. LINAC-136.

XBD201209-00949.TIF -- Van de Graaff generator. Photograph taken June 5, 1946. LINAC-137.

XBD201209-00950.TIF -- Pulse line. Photograph taken August 23, 1946. LINAC-140.

XBD201209-00951.TIF -- Calorimeter. Photograph taken August 29, 1946. LINAC-142.

XBD201209-00952.TIF -- 45-inch cavity. Photograph taken August 29, 1946. LINAC-145.

XBD201209-00953.TIF -- Test drift tubes. Photograph taken September 11, 1946. LINAC-155.

XBD201209-00954.TIF -- Control panel for linear accelerator. Photograph taken September 11, 1946. LINAC-156.

XBD201209-00955.TIF -- Arrival of 40-foot tank for Linac. Photograph taken September 13, 1946. LINAC-157.

XBD201209-00956.TIF -- Arrival of 40-foot tank for Linac. Shown here on the back of a truck outside the 184-inch cyclotron. Photograph taken September 13, 1946. LINAC-158.

XBD201209-00957.TIF -- 40-foot Linac tank in situ. Photograph taken September 16, 1946. LINAC-162.

XBD201209-00958.TIF -- 40-foot Linac tank in situ. Photograph taken September 16, 1946. LINAC-163.

XBD201209-00959.TIF -- Linac 40-foot tank. Photograph taken September 16, 1946. LINAC-164.

XBD201209-00960.TIF -- Capacitor rack. Photograph taken September 17, 1946. LINAC-166.

XBD201209-00961.TIF -- Beryllium foils for Linac. Photograph taken September 10, 1946. LINAC-171.

XBD201209-00962.TIF -- 40-foot tank (opened) and Van der Graaff generator. Photograph taken September 25, 1946. LINAC-173.

XBD201209-00964.TIF -- Beryllium foils for linear accelerator. Photograph taken September 10, 1946. LINAC-178.

XBD201209-00965.TIF -- Beryllium process for linear accelerator. Photograph taken October 2, 1946. LINAC-181.

XBD201209-00966.TIF -- Linear accelerator pulsing system rotary gap. Photograph taken October 4, 1946. LINAC-187.

XBD201209-00967.TIF -- Linac magnetron tapered section. Photograph taken October 8, 1946. LINAC-188.

XBD201209-00968.TIF -- Linear accelerator magnetron shell assembly. Photograph taken October 17, 1946. LINAC-195.

XBD201209-00969.TIF -- Pulse line. Photograph taken October 24, 1946. LINAC-199.

XBD201209-00970.TIF -- Drawing of Linac for publication, contains description of Van de Graaff generator and linear accelerator. Photograph taken November 26, 1946. LINAC-205.

XBD201209-00971.TIF -- 30-inch model, associated with Oppenheimer. Photograph taken November 5, 1946. LINAC-209.

XBD201209-00972.TIF -- Linear accelerator short section. Photograph taken November 7, 1946. LINAC-213.

XBD201209-00973.TIF -- Rotary spark gap. Photograph taken November 7, 1946. LINAC-216.

XBD201209-00974.TIF -- Linac ground end assembly. Photograph taken November 19, 1946. LINAC-226.

XBD201209-00975.TIF -- Linac magnetron. Photograph taken November 22, 1946. LINAC-230.

XBD201209-00976.TIF -- Linac magnetron. Photograph taken November 22, 1946. LINAC-231.

XBD201209-00977.TIF -- Van de Graaff generator. Photograph taken December 4, 1946. LINAC-246.

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XBD201209-00978.TIF -- Proton ion source for Van de Graaff generator. Photograph taken December 9, 1946. LINAC-259.

XBD201209-00979.TIF -- Drawing of Linac components. Photograph taken June 22, 1956. LINAC-262A.

XBD201209-00980.TIF -- Cutaway drawing of Van de Graaff generator showing high voltage assembly. Date unknown. LINAC-263.

XBD201209-00981.TIF -- Proton ion source for Van de Graaff generator. Photograph taken December 10, 1946. LINAC-266.

XBD201209-00982.TIF -- Re-entrant cavity oscillator (not completely assembled.) Photograph taken December 10, 1946. LINAC-267.

XBD201209-00983.TIF -- Linac magnetron. Photograph taken December 16, 1946. LINAC-282.

XBD201209-00984.TIF -- Van de Graaff generator. Photograph taken December 25, 1946. LINAC-291.

XBD201209-00985.TIF -- Van de Graaff generator. Photograph taken December 25, 1946. LINAC-292.

XBD201209-00986.TIF -- Arrival of 40-foot tank liner (on truck.) Photograph taken December 27, 1946. LINAC-309.

XBD201209-00987.TIF -- Arrival of 40-foot tank liner (on truck.) Photograph taken December 27, 1946. LINAC-312.

XBD201209-00988.TIF -- Arrival of 40-foot tank liner (on a truck.) Photograph taken December 27, 1946. LINAC-313.

XBD201209-00997.TIF -- Van de Graaff generator. Photograph taken December 27, 1946. LINAC-315.

XBD201209-00998.TIF -- 40-foot Linac tank liner. Photograph taken December 31, 1946. LINAC-323.

XBD201209-00999.TIF -- 40-foot Linac tank liner. Photograph taken December 31, 1946. LINAC-324.

XBD201209-01000.TIF -- 40-foot Linac tank liner. Photograph taken December 31, 1946. LINAC-325.

XBD201209-01001.TIF -- 40-foot Linac tank liner. Photograph taken January 2, 1947. LINAC-331.

XBD201209-01002.TIF -- Linac magnetron. Photograph taken January 8, 1947. LINAC-338.

XBD201209-01003.TIF -- Linac magnetron. Photograph taken January 8, 1947. LINAC-339.

XBD201209-01004.TIF -- Linac magnetron. Photograph taken January 9, 1947. LINAC-342.

XBD201209-01005.TIF -- Linac instrument lead. Photograph taken January 10, 1947. LINAC-346.

XBD201209-01006.TIF -- Damage to Linac liner. Photograph taken January 17, 1947. LINAC-351.

XBD201209-01007.TIF -- Damage to Linac liner. Photograph taken January 17, 1947. LINAC-352.

XBD201209-01008.TIF -- Damage to Linac liner showing hoist. Photograph taken January 17, 1947. LINAC-353.

XBD201209-01009.TIF -- Baffle plate assembly for magnetron charcoal trap. Photograph taken January 23, 1947. LINAC-356.

XBD201209-01010.TIF -- Drift tubes for liner. Photograph taken January 28, 1947. LINAC-357.

XBD201209-01011.TIF -- R.F. oscillator for linear accelerator. Photograph taken February 4, 1947. LINAC-362.

XBD201209-01012.TIF -- R.F. oscillator for linear accelerator. Photograph taken February 4, 1947. LINAC-363.

XBD201209-01013.TIF -- Test cavity pulse line. Photograph taken February 2, 1947. LINAC-372.

XBD201209-01014.TIF -- Hydraulic control for lids of liner. Photograph taken February 11, 1947.

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LINAC-375.
 XBD201209-01015.TIF -- Oscillator insulator for linear accelerator. Photograph taken February 13, 1947. LINAC-376.
 XBD201209-01016.TIF -- Linear accelerator turning unit. Photograph taken February 20, 1947. LINAC-383.
 XBD201209-01017.TIF -- Van de Graaff generator (north side). Photograph taken February 28, 1947. LINAC-387.
 XBD201209-01018.TIF -- 40-foot Linac tank liner (on truck.) Photograph taken March 5, 1947. LINAC-396.
 XBD201209-01019.TIF -- 40-foot Linac tank liner. Photograph taken March 5, 1947. LINAC-397.
 XBD201209-01021.TIF -- Linear accelerator internal triode. Photograph taken April 11, 1947. LINAC-410.
 XBD201209-01022.TIF -- Hydraulic lifting outfit for 40-foot linear accelerator. Photograph taken April 15, 1947. LINAC-417.
 XBD201209-01023.TIF -- Linear accelerator cooling system. Photograph taken April 16, 1947. LINAC-420.
 XBD201209-01024.TIF -- Linear accelerator transfer line resistor setting control. Photograph taken April 24, 1947. LINAC-423.
 XBD201209-01025.TIF -- Magnetron chamber used for linear accelerator high field vacuum tests. Photograph taken May 2, 1947. LINAC-433.
 XBD201209-01026.TIF -- Magnetron chamber used for linear accelerator high field vacuum tests. Photograph taken May 2, 1947. LINAC-434.
 XBD201209-01027.TIF -- Ion gauge protection panel. Photograph taken May 9, 1947. LINAC-436.
 XBD201209-01028.TIF -- Linac 40-foot linear accelerator liner. Photograph taken May 12, 1947. LINAC-439.
 XBD201209-01029.TIF -- Linear accelerator oscillator designed by Mr. William (Bill) Baker. Photograph taken May 13, 1947. LINAC-440.
 XBD201209-01030.TIF -- William (Bill) Baker's oscillators attached to linear accelerator. Photograph taken June 23, 1947. LINAC-452.
 XBD201209-01031.TIF -- Linear accelerator control panel and Van de Graaff generator. Photograph taken July 21, 1947. LINAC-456.
 XBD201209-01032.TIF -- Linear accelerator control panel for Van de Graaff generator. Photograph taken July 21, 1947. LINAC-457.
 XBD201209-01033.TIF -- Condenser failure. Photograph taken July 21, 1947. LINAC-460.
 XBD201209-01034.TIF -- Linear accelerator electric power cage. Photograph taken July 21, 1947. LINAC-463.
 XBD201209-01035.TIF -- Linac selector switch with string control. Photograph taken July 31, 1947. LINAC-469.
 XBD201209-01036.TIF -- Linear accelerator beam probe servo unit. Photograph taken August 4, 1947. LINAC-471.
 XBD201209-01037.TIF -- Line connection between Van de Graaff generator and linear accelerator. Photograph taken August 4, 1947. LINAC-472.
 XBD201209-01038.TIF -- Linear accelerator clunker switch. Photograph taken October 23, 1946. LINAC-197.
 XBD201209-01039.TIF -- Damage to Linac gas cylinder supply room, caused by explosion. Photograph taken September 1, 1947. LINAC-474.
 XBD201209-01040.TIF -- Damage to Linac gas cylinder supply room, caused by explosion.

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Photograph taken September 1, 1947. LINAC-478.
 XBD201209-01041.TIF -- Damage to Linac gas cylinder supply room, caused by explosion.
 Photograph taken September 1, 1947. LINAC-482.
 XBD201209-01042.TIF -- Damage to gas cylinders caused by explosion in Linac gas cylinder supply room. Photograph taken September 9, 1947. LINAC-489.
 XBD201209-01043.TIF -- Damage to gas cylinder caused by explosion in Linac gas cylinder supply room. Photograph taken September 10, 1947. LINAC-490.
 XBD201209-01044.TIF -- General view of Linac tank with lead shielding and oscillators. Photograph taken October 8, 1947. LINAC-506.
 XBD201209-01045.TIF -- Blackboard with following text: "Alvarez theory proving machine would not work, time 8:30 pm; 32 MEV beam [achieved] at 2:40 am." Photograph taken October 16, 1947. LINAC-515. See also XBD9511-05317.BIM with Seaborg caption added.
 XBD201209-01046.TIF -- Cascade system nitrogen cylinder for Van de Graaff generator. Photograph taken October 29, 1947. LINAC-520.
 XBD201209-01047.TIF -- Linear accelerator coaxial magnetron. Photograph taken December 5, 1947. LINAC-525.
 XBD201209-01048.TIF -- Linear accelerator electron scavenger magnet. Photograph taken December 19, 1947. LINAC-527.
 XBD201209-01049.TIF -- Van de Graaff generator. Photograph taken February 2, 1948. LINAC-542.
 XBD201209-01050.TIF -- Linear accelerator monochromotizer. Photograph taken February 23, 1948. LINAC-549.
 XBD201209-01051.TIF -- Luis Alvarez's delayed neutron experiment diagram. Photograph taken April 26, 1948. LINAC-552.
 XBD201209-01052.TIF -- Luis Alvarez's delayed neutron experiment graph showing differential neutron spectrum. Photograph taken April 26, 1948. LINAC-553.
 XBD201209-01053.TIF -- Luis Alvarez's delayed neutron experiment chart showing N17 decay scheme. Photograph taken April 26, 1948. LINAC-554.
 XBD201209-01054.TIF -- Luis Alvarez's delayed neutron experiment graph showing N17 absorption curve of beta-rays in coincidence with neutrons. Photograph taken April 26, 1948. LINAC-555.
 XBD201209-01057.TIF -- Luis Alvarez's delayed neutron experiment diagram. Photograph taken May 4, 1948. LINAC-556.
 XBD201209-01058.TIF -- Van de Graaff high voltage electrode electrical system. Photograph taken June 2, 1948. LINAC-560.
 XBD201209-01059.TIF -- Van de Graaff high voltage electrode electrical system. Photograph taken June 2, 1948. LINAC-563.
 XBD201209-01060.TIF -- Linear accelerator beam meter showing batteries. Photograph taken July 29, 1948. LINAC-566.
 XBD201209-01061.TIF -- Linear accelerator ion source dry dock. Photograph taken August 10, 1948. LINAC-568.
 XBD201209-01062.TIF -- Van de Graaff generator. Photograph taken September 15, 1948. LINAC-570.
 XBD201209-01063.TIF -- Van de Graaff generator, end view. Photograph taken October 24, 1948. LINAC-578.
 XBD201209-01064.TIF -- Plate holder for proton-proton scattering equipment. Photograph taken November 1, 1948. LINAC-582.
 XBD201209-01069.TIF -- Line drawing of radio-frequency oscillator. Photograph taken January 26, 1949. LINAC-584.

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XBD201209-01070.TIF -- Diagram showing front view of beam analyzing magnet and plan view of magnet vacuum chamber. Photograph taken January 26, 1949. LINAC-585.

XBD201209-01071.TIF -- Line drawing of radio-frequency transmission line. Photograph taken January 26, 1949. LINAC-586.

XBD201209-01072.TIF -- Line drawing of pumping system. Photograph taken January 26, 1949. LINAC-587.

XBD201209-01073.TIF -- Diagram showing disposition of tank and liner. Photograph taken January 26, 1949. LINAC-588.

XBD201209-01075.TIF -- Grap showing results of model tests on resonant frequencies of re-entrant activities. Photograph taken January 26, 1949. LINAC-589.

XBD201209-01076.TIF -- P16 ion source pulser. Photograph taken February 7, 1949. LINAC-591.

XBD201209-01077.TIF -- Proton-proton scattering equipment. Photograph taken March 7, 1949. LINAC-600.

XBD201209-01078.TIF -- Schematic of ion source for Linac. Photograph taken April 14, 1949. LINAC-602.

XBD201209-01079.TIF -- Schematic of Van de Graaff generator and tank. Photograph taken April 14, 1949. LINAC-603.

XBD201209-01080.TIF -- Building change beam shielding Linac. Photograph taken May 6, 1949. LINAC-605.

XBD201209-01081.TIF -- 60-inch cyclotron oscillator. Photograph taken May 11, 1949. LINAC-608.

XBD201209-01082.TIF -- Spark gap trigger transformer. Photograph taken May 16, 1949. LINAC-610.

XBD201209-01083.TIF -- Interior bombardment area. Associated with Wolfgang (Pief) Panofsky. Photograph taken June 10, 1949. LINAC-613.

XBD201209-01085.TIF -- Rectifier power supply. Associated with Wolfgang(Pief) Panofsky. Photograph taken June 10, 1949. LINAC-615.

XBD201209-01086.TIF -- Be7 branching ratio experiment, manganese bath and target assembly. Photograph taken June 10, 1949. LINAC-616.

XBD201209-01087.TIF -- Counting positron, exterior bombardment area. Associated with Wolfgang (Pief) Panofsky. Photograph taken June 10, 1949. LINAC-620.

XBD201209-01088.TIF -- Linac oscillator development, drift tube. Photograph taken June 16, 1949. LINAC-622.

XBD201209-01089.TIF -- Test model of Bevatron linear accelerator. Photograph taken August 4, 1949. LINAC-635.

XBD201209-01090.TIF -- Variable gate delay for beam monitor equipment, Linac. Photograph taken August 29, 1949. LINAC-644.

XBD201209-01091.TIF -- Spark gap trigger pulse transformer. Photograph taken November 22, 1949. LINAC-654.

XBD201209-01092.TIF -- Collimating system on proton-proton scattering. Photograph taken December 2, 1949. LINAC-655.

XBD201209-01093.TIF -- Lawrence H. Johnston, electrical engineer with proton-proton scattering equipment. Photograph taken December 2, 1949. LINAC-656.

XBD201209-01094.TIF -- Proton-proton scattering chamber, defining cylinders. Associated with Bruce Cork. Photograph taken December 23, 1949. LINAC-662.

XBD201209-01095.TIF -- Hi-voltage electrostatic generator for Van de Graaff, end view from inside shell. Photograph taken April 5, 1950. LINAC-664.

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XBD201209-01096.TIF -- Hi-voltage electrostatic generator for Van de Graaff, south face. Photograph taken April 5, 1950. LINAC-666.

XBD201209-01097.TIF -- Support tubes and ion tubes, Van de Graaff generator. Photograph taken June 28, 1950. LINAC-669.

XBD201209-01098.TIF -- Voltage-dividing planes with both guides and ion tube, Van de Graaff generator. Photograph taken June 28, 1950. LINAC-671.

XBD201209-01099.TIF -- Beam monitor pre-amplifier. Photograph taken August 14, 1950. LINAC-683.

XBD201209-01100.TIF -- Van de Graaff generator, 1950 model. Photograph taken September 13, 1950. LINAC-687.

XBD201209-01101.TIF -- Van de Graaff generator, 1950 model. Photograph taken September 13, 1950. LINAC-691.

XBD201209-01102.TIF -- 20KV focusing power supply. Formerly confidential, declassified 4/30/1959. Photograph taken November 24, 1950. LINAC-695.

XBD201209-01103.TIF -- Interference patterns on Linac drift tubes. Photograph taken October 25, 1950. LINAC-698.

XBD201209-01104.TIF -- 1951 model oscillators on Linac. Photograph taken May 21, 1951. LINAC-707.

XBD201209-01105.TIF -- Van de Graaff hi-voltage generator with unnamed individual. Photograph taken August 2, 1951. LINAC-709.

XBD201209-01106.TIF -- Van de Graaff hi-voltage generator. Photograph taken August 2, 1951. LINAC-710.

XBD201209-01107.TIF -- Strong beam focusing electrostatic cans. New Equipment and Components Group. Photograph taken November 26, 1952. LINAC-723.

XBD201209-01108.TIF -- Strong beam focusing electrostatic cans. New Equipment and Components Group. Associated with Luis Alvarez. Photograph taken December 1, 1952. LINAC-725.

XBD201209-01109.TIF -- Strong beam focusing electrostatic cans. New Equipment and Components Group. Associated with Luis Alvarez. Photograph taken December 1, 1952. LINAC-726.

XBD201209-01110.TIF -- General view of Linac tank with shielding. Photograph taken May 11, 1954. LINAC-730.

XBD201209-01111.TIF -- Linear accelerator. Photograph taken April 9, 1956. LINAC-742.

XBD201209-01112.TIF -- Linac counting area. Photograph taken April 9, 1956. LINAC-749.

XBD201209-01113.TIF -- Linac bombardment area. Photograph taken April 9, 1956. LINAC-750.

XBD201209-01114.TIF -- Linac tank and shield. Photograph taken April 9, 1956. LINAC-753.

XBD201209-01115.TIF -- Moving out the Linac tank. Photograph taken May 13, 1958. LINAC-757.

XBD201209-01116.TIF -- Moving out the Linac tank. Photograph taken May 13, 1958. LINAC-760.

XBD201209-01117.TIF -- Moving out the Linac tank, with crane loading it on truck. Photograph taken May 13, 1958. LINAC-755.

XBD201209-01118.TIF -- Moving out the Linac tank, with crane loading it on truck. Photograph taken May 13, 1958. LINAC-759.

XBD201209-01119.TIF -- Moving out the Linac tank. Photograph taken May 13, 1958. LINAC-762.

XBD201209-01120.TIF -- Removing Linac. Photograph taken May 15, 1958. LINAC-764.

XBD201209-01121.TIF -- 40-foot Linac tank being loaded on truck. Photograph taken May 16, 1958. LINAC-765.

XBD201209-01122.TIF -- 40-foot Linac tank being moved by crane. Photograph taken May 16,

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1958. LINAC-767.
XBD201209-01123.TIF -- 40-foot tank being moved from Bldg. 10. Photograph taken May 16, 1958. LINAC-769.
XBD201209-01124.TIF -- 40-foot Linac tank on truck. Photograph taken May 16, 1958. LINAC-771.